

# Organic & Biomolecular Chemistry

An international journal of synthetic, physical and biomolecular organic chemistry

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### Cover

See Alessandra Del Giudice et al., pp. 118–125.

Cover image designed by Daniele Del Giudice.

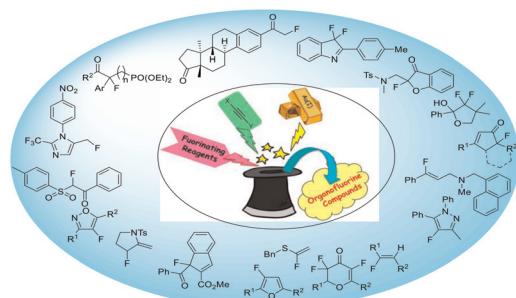
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### Gold-catalyzed fluorination of alkynes/allenes: mechanistic explanations and reaction scope

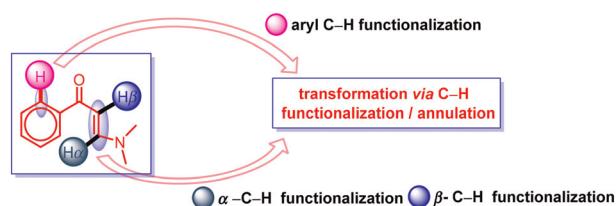
Deblina Singha Roy, Yogesh Bhaskar Singh Tanwer, Snigdha Rani Patra, Shivam Kumar, Sabyasachi Bhunia\* and Debjit Das\*



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### Recent advances in site-selective transformations of $\beta$ -enaminones via transition-metal-catalyzed C–H functionalization/annulation

Prasanta Roy, Karuna Mahato, Divya Shrestha, Sonaimuthu Mohandoss, Seung Woo Lee\* and Yong Rok Lee\*



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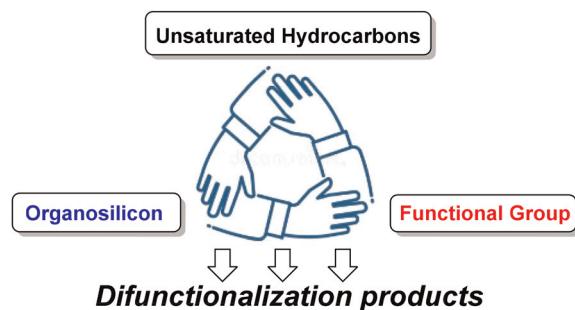
Fundamental questions  
Elemental answers

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## Recent developments in difunctionalization of unsaturated hydrocarbons with organosilicon reagents

Jiawei Mao, Ming Chen,\* Yao Zhong and Ren-Jie Song\*

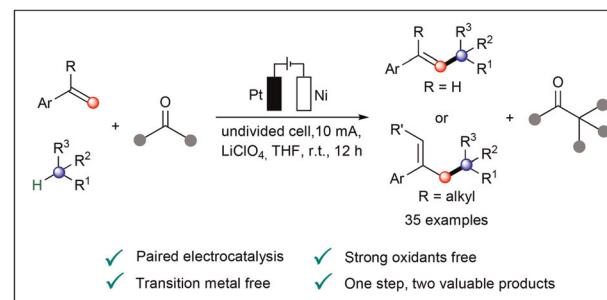


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## Paired electrocatalysis enabled oxidative coupling of styrenes with alkyl radicals

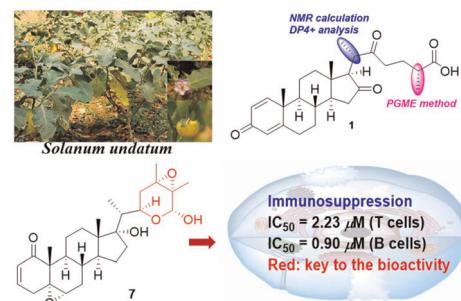
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Highly oxygenated steroids with immunosuppressive activity from *Solanum undatum*

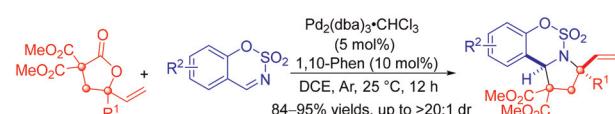
Shu-Shuai Chen, Cheng-Yu Zheng, Guan-Zhou Yang, Jun-Su Zhou, Shi-Jun He,\* Yao-Yue Fan\* and Jian-Min Yue\*



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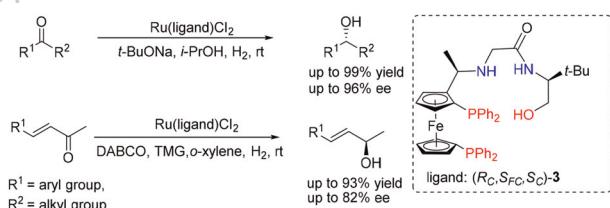
## Palladium-catalyzed [3 + 2] cycloaddition of 4-vinyl-4-butylolactones with sulfamate-derived cyclic imines: construction of sulfamate-fused pyrrolidines

Honghao Sun, Siyuan Ding, Bo Wang,\* Jiaxing Huang\* and Hongchao Guo\*



## COMMUNICATIONS

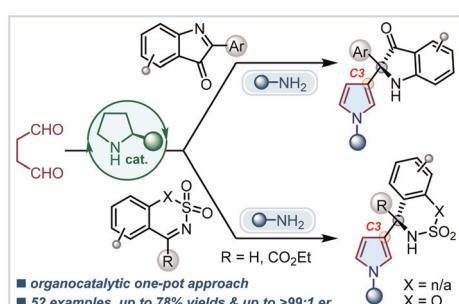
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**Development of chiral ferrocenyl P,P,N,N,O-ligands for ruthenium-catalyzed asymmetric hydrogenation of ketones**

Lei Xu, Gen-Qiang Chen\* and Xumu Zhang\*

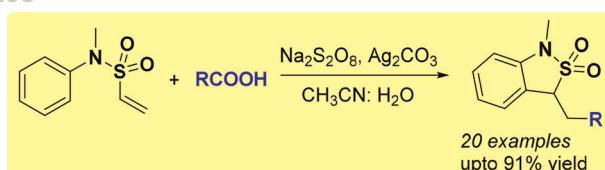
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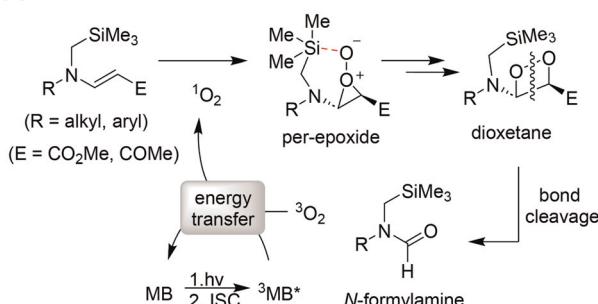


- easy access to aryl fused- $\gamma$ -sultams
- carboxylic acids as alkyl source
- olefin difunctionalization
- broad substrate scope

**Synthesis of benzosultams via  $\text{Ag}(\text{i})$ -catalyzed alkylative cyclization of vinyl sulfonamides**

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Hayeon You, Suk Hyun Lim\* and Dae Won Cho\*

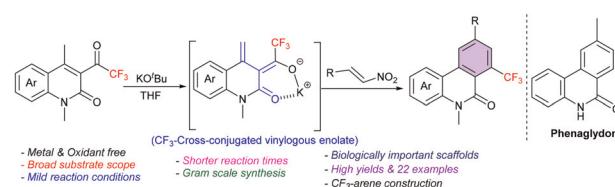


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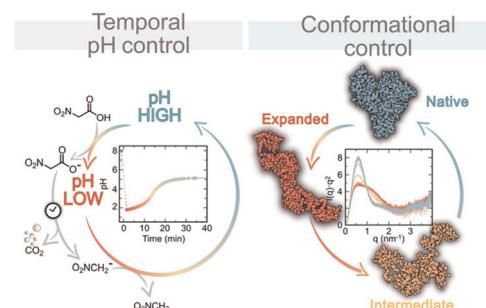


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## An albumin unfolding and refolding cycle induced by a time-controlled pH jump

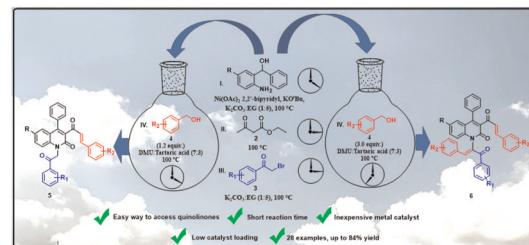
Alessandra Del Giudice,\* Daniele Del Giudice, Emanuele Spatola, Valentina Alemanno, Luciano Galantini and Stefano Di Stefano



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## Facile synthesis of functionalized quinolinones in a green reaction medium and their photophysical properties

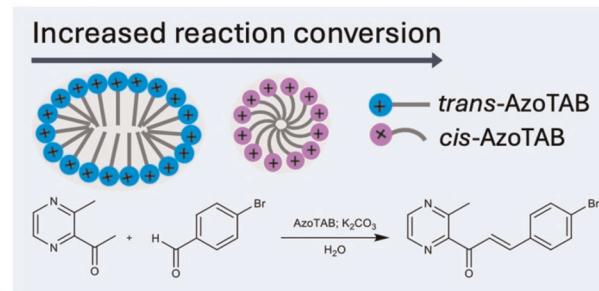
Pari Keerthana, Sundararajan Suresh and Fazlur Rahman Nawaz Khan\*



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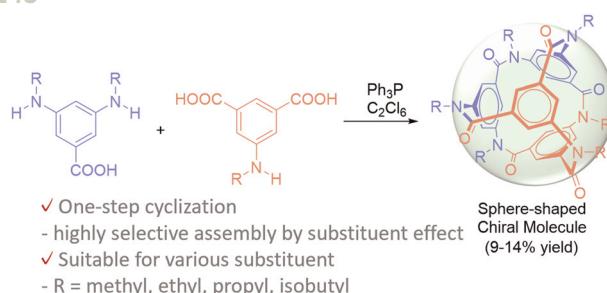
## Size and shape matter for micellar catalysis using light-responsive azobenzene surfactants

Camille Blayo, Beatrice E. Jones, Michael J. Bennison and Rachel C. Evans\*



## PAPERS

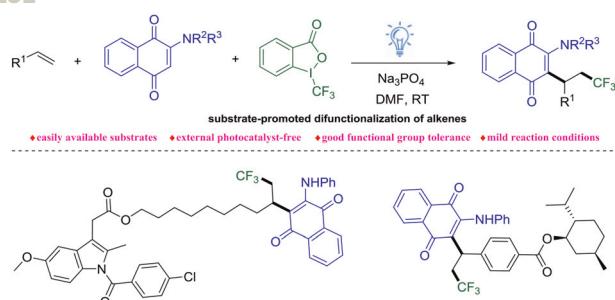
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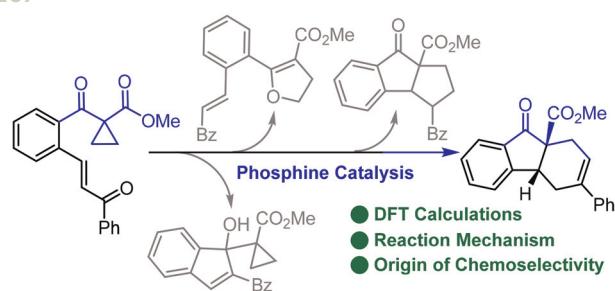
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### Design of coiled-coil N-peptides against HIV-1 based on a CADD strategy

Yan Huang, Hui Luo, Yihui Jin, Yuheng Ma, Yan Zhao, Xin Gao, Yuting Zhao, Xiao Qi, Guodong Liang,\* Lu Ga,\* Gang Li\* and Jie Yang\*

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### DFT study on the mechanism of phosphine-catalyzed ring-opening reaction of cyclopropyl ketones

Xiaohan Yu and Yang Wang\*

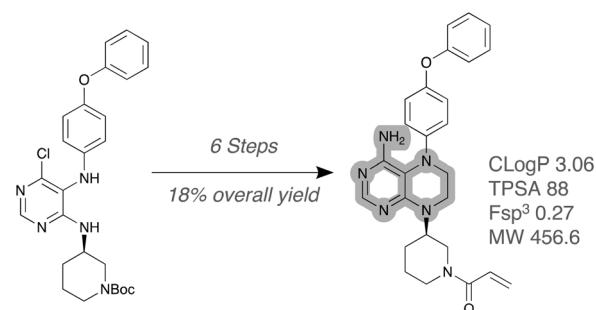


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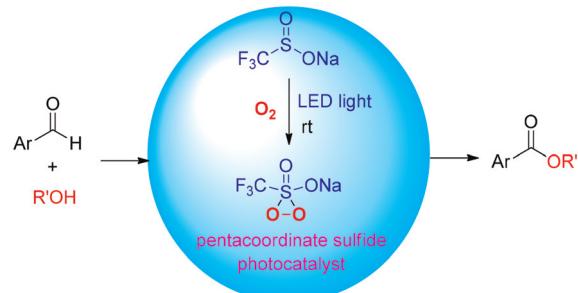
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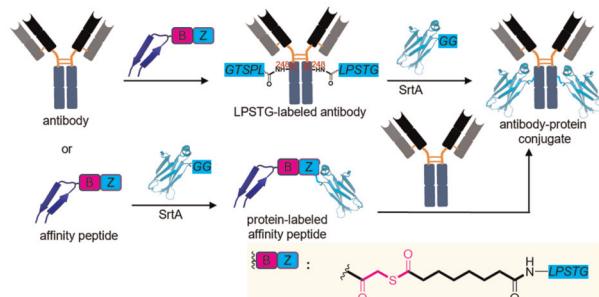
Yong Liu, Xianjin Zhu, Yue Zhang, Zhengyi Yi,  
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## Generation of antibody-drug conjugates by proximity-driven acyl transfer and sortase-mediated ligation

Zhi-Hui Cui, Hua Zhang, Feng-Hao Zheng,  
Jun-Hao Xue, Qing-Hong Yin, Xiao-Lei Xie,  
Yu-Xuan Wang, Tao Wang,\* Li Zhou\* and Ge-Min Fang\*

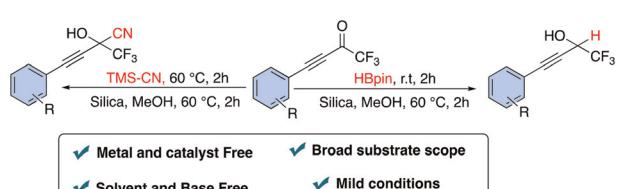


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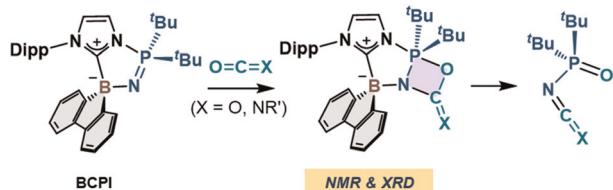
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Devadkar Ajitrao Kisan, Ishita Paul, Soumyadip Dey,  
Abhijit Sau\* and Tarun K. Panda\*



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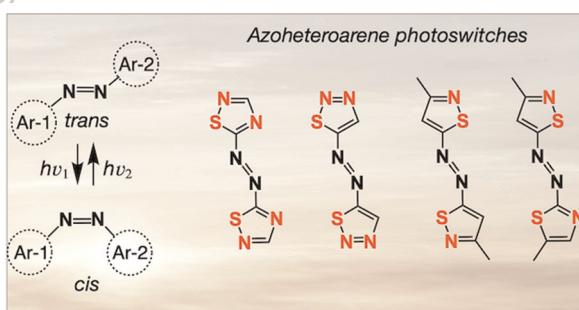
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**Transformation of  $\text{CO}_2$  and isocyanates mediated by *N*-borane-substituted cyclic phosphine imides (BCPIs) via  $\lambda^5$ -oxazaphosphhetanes**

Shun Nagai, Sensuke Ogoshi and Yoichi Hoshimoto\*

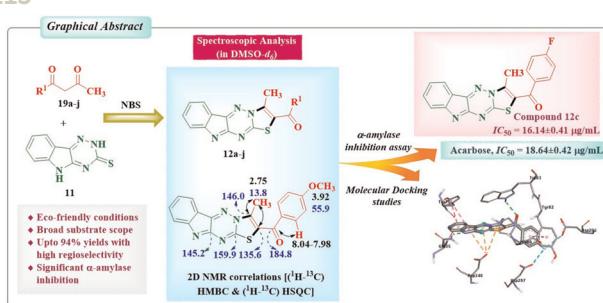
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**Azophotoswitches containing thiazole, isothiazole, thiadiazole, and isothiadiazole**

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**Efficient synthesis of promising antidiabetic triazinoindole analogues via a solvent-free method: investigating the reaction of 1,3-diketones and 2,5-dihydro-3*H*-[1,2,4]triazino[5,6-*b*]indole-3-thione**

Ranjana Aggarwal,\* Prince Kumar, Mona Hooda, Rahul Singh and Parvin Kumar

